

## Polypropylene

# Borcycle™ MG1416SY

### Polypropylene Compound with Recyclate Content, Mineral Filled

#### Description

**Borcycle™ MG1416SY** is a 10% mineral filled polypropylene compound. This material contains 40% post-consumer recycled polymer and is intended for injection moulding.

#### Applications

**Borcycle MG1416SY** has been developed especially for the car industry to be used in automotive interior parts.

Pillar trims Trunk claddings  
Interior trims

#### Special Features

High scratch resistance Low density  
Good surface aesthetics Recycled content  
Excellent flowability

#### Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	985 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.900 MPa	ISO 178
Tensile Strength (50 mm/min)	24 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	100 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	7 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2 kJ/m <sup>2</sup>	ISO 179/1eA

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

#### Processing Techniques

The actual conditions will depend on the type of equipment used.

##### Injection Moulding

This product is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. Following parameters should be used as guidelines:

Feeding temperature 40 - 80 °C  
Mass temperature 210 - 250 °C  
Back pressure As low as possible  
Holding pressure 30 - 60 MPa  
Mould temperature 30 - 50 °C  
Screw speed Low to medium  
Flow front speed 100 - 200 mm/s

#### Storage

**Borcycle MG1416SY** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Borcycle is a trademark of the Borealis group.

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### Safety

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety of the product. For more information, contact your Borealis representative.

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

### Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.

### Issuer:

Marketing Automotive / Georg Grestenberger  
Product Management / Angelica Legras

### Disclaimer

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.**

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